



# Arkansas Centerline File Program

## Status as of 3/15/02



### Executive Summary

Detailed program status reports are posted to the Arkansas Geographic Information Office website once every month. The State Land Information Board and other major stake-holders are on an email distribution list that will contain a quick summary of the program status and a link to the detailed report on the website. For additional information, visit the Arkansas Centerline File Program (ACF) website at: [http://www.gis.state.ar.us/AGIO/ACF/ACF\\_status.asp](http://www.gis.state.ar.us/AGIO/ACF/ACF_status.asp).

Below is a listing from most to least current Arkansas Centerline File Program (ACF) milestones:

- *February 15, 2003* – Meeting with Washington County 9-1-1 to review their mapping and discuss further development. Also meeting with Benton County to discuss details of their project.
- *February 14, 2003* – Meeting with Carroll County 9-1-1 to review their mapping and discuss further development.
- *February 7, 2003* – Visited Baxter County Road and Bridge and 9-1-1 to review their existing mapping and made plans to adjust their mapping to the ACF standard in the future and how they could proceed with a full blown GIS, asset management system and capitol improvements program.
- *March 5, 2003* – Had a meeting with Rick ihde-adh from the Nuclear Planning and Response Team in Russelleville and discussed how to use GeoStor and the state of centerlines in his region. Then, met with Charles Molsbee of M&M GIS to discuss M&M becoming an ACF feature vendor. He provided AGIO with copies of the data he developed for Garland, Hot Spring and Montgomery County and agreed to develop new data in the ACF standard with no fee distribution. He wants to adjust the existing data to meet the standard for Garland, Hot Spring and Montgomery.
- *February 23-25, 2003* – Attended the National Emergency Number Association Critical Issues Forum. Attended a short course on the technical issues with delivering e9-1-1 and w9-1-1 service to the public and how that affects the ACF program. Also met with Congressman Boozman and his aide, Congressman

Ross's aide, and Congressman Berry's aide to raise awareness of the state of centerlines in Arkansas and how that affects w9-1-1 service and other sectors. Also met with the Census Bureau's TIGER modernization reps to bring them up to speed on mapping in Arkansas and how we can work together.

- *February 14, 2003* – Follow up meeting and training for the 9-1-1 company to address specific issues in Lonoke County.
- *February 13, 2003* – Met with Sharp County Road and Bridge and White River Planning and Development District to discuss issues with centerline data development and using GeoStor to acquire supporting data.
- *February 11, 2003* – Visited the Van Buren County 9-1-1 office to discuss adjusting their existing mapping to the ADOP imagery.
- *February 6, 2003* – Discussed data development issues with Drew County Road and Bridge and 9-1-1 and did some training on ArcGIS.
- *February 3-4, 2003* – Attended the County Judges Association of Arkansas's Spring Conference to coordinate many ACF issues.
- *January 31, 2003* – Met with the 9-1-1 Company to discuss methodology to ensure their deliverable to clients would adhere to the ACF standards.
- *January 23, 2003* – Trained Pope County on how to adjust their existing mapping using the DOQQs into the ACF standard.
- *January 21, 2003* – Met with the Commercial Mobile Radio Service Board and presented the ACF program and discussed issues with implementing w9-1-1 Phase II and existing centerline mapping.
- *January 15, 2003* – AGIO hosted a meeting for all county judges, 911 coordinators, Office of Emergency Management representatives and Road & Bridge representatives. The meeting was held at the Association of Arkansas Counties and funded through a grant from the Mid-America GIS Consortium. There were 133 county representatives in attendance from over 40 counties. AGIO presented on the following topics: ACF and GPS standards, ACF status, options for ACF data creation with approximate schedule and cost including developing the data in-house using DOQQs and/or GPS, using their local Planning and Development District, and ACF feature vendors. We showed them examples of the US Census and old AHTD maps and their inaccuracy and incompleteness. We collected technical contacts for each county and discovered several more agencies that may have data that will be useful to the program. We also made progress in getting local support for the program, including coordination and maintenance issues.

- *January 8, 2003* – Met with Paul Strickland and Terri Black both of whom are former NENA representatives and SBC employees that have started their own mapping company. We talked about the ACF standards and how to provide counties with the best product using DOQs and data from GeoStor.
- *December 17, 2002* – AGIO sends out invitation letters to all county judges inviting them to an informative coordination meeting for the ACF program. The meeting will inform them of the current status of their county, details on following the standard, and their role in data creation and maintenance. The different options for creating centerline data include an anticipated schedule; costs and benefits of the different methodologies will also be covered.
- *December 16, 2002* – Met with Robert Middleton of the Eastern Arkansas Planning and Development District to help get Mississippi reformatted to the ACF standard and train Robert on ACF methodologies.
- *December 13, 2002* – Arkansas One Call finishes attributing the centerlines from Searcy County with road names, types and other data. The centerlines were created by AHTD digitizing on top of the ADOP imagery. AGIO added private and miscellaneous drives. One Call will add the address ranges next year in conjunction with Searcy County's 911 implementation.
- *November 27, 2002* – AGIO visited Hot Spring County to see a demo of MapStar and full Phase I E-911 implementation using M&M centerline data. M&M has developed data for Garland County and is preparing data in Montgomery and Pike Counties.
- *November 18, 2002* - AGIO posts Madison County to the ftp site as the first local database to meet the ACF standard. It can be downloaded in ESRI shapefiles in various coordinate systems at ([ftp://agio.state.ar.us/ftp/acf/madison\\_county](ftp://agio.state.ar.us/ftp/acf/madison_county) ).
- *November 14, 2002* - AGIO completes the addition of miscellaneous roads and private drives to the Searcy Co. mapping from AHTD and forwards the database to Arkansas One Call for attribution in conjunction with the county's 911 coordinator. AGIO completes a pilot project illustration concerning how points from the County Assessor Mapping Program (CAMP <http://www.gis.state.ar.us/AGIO/CAMP.asp> ) can be used to populate geocodable attributes efficiently onto mapping.
- *November 13, 2002* – AGIO meets with Spatial Data Research (contractor doing work in Lincoln, Miller, and Nevada county) who agrees to provide the AGIO with a data structure translation wizard so that the data they produce will adhere to the ACF standard.
- *November 10, 2002* - AGIO receives introductory data for review of preliminary database of roads collected using mapping grade GPS and field-verified

geocodable attributes for adherence to the ACF standard for Lincoln and Miller counties.

- *November 4, 2002* - AGIO meets with a representative from Plant Equipment (contractor that produces MapStar for 911 offices in several counties). We verify that data in the ACF format will work with their software.
- *November 1, 2002* - AGIO develops methodology for county and feature level metadata as well as unique i.d. population.
- *October 31, 2002* - AGIO meets with Pulaski Area GIS (PAgis) to discuss status of their centerlines. Data should be available in early 2003.
- *October 23, 2002* - Greene County submits the local centerline data for review and reformatting to the ACF standard.
- *October 14, 2002* - Madison County is the first to turn over their local centerline database for review.
- *October 3, 2002* - ACF GIS layer templates are posted to the AGIO website in ESRI, Intergraph, MapInfo and MS Access format.
- *October 1, 2002* - AGIO completes review and comments of Conway County's preliminary database of roads collected using mapping grade GPS and field-verified geocodable attributes for adherence to the ACF standard.
- *September 26, 2002* - The Arkansas Centerline File Standard is officially filed with the Arkansas State Library as a rule and regulation. The Arkansas Highway and Transportation Department finishes mapping the Searcy Co. centerlines from Arkansas Digital Ortho Program aerial photos:  
<http://www.gis.state.ar.us/AGIO/adop.htm>
- *September 16, 2002* - AGIO hires a GIS Specialist to serve as project lead on the ACF Program.
- *September 2002* - The Arkansas Centerline File Standard is presented to the ALC-Administrative Rules and Regulations Committee.
- *August 2002* - The Arkansas State Land Information Board votes to adopt the following for inclusion into the proposed Arkansas Centerline File Standard:  
**Centerline shall include all clearly defined passages through which a standard vehicle may travel as well as driveways extending more than 500 feet and/or driveways containing two or more addressed structures.**
- *August 2002* - It is brought to the attention of the Arkansas State Land Information Board and Arkansas Geographic Information Office that "centerline"

is not clearly defined in the standard and the capturing of driveways should be included.

- *July 2002* - Arkansas Centerline File Standard is submitted to the Bureau of Legislative Research to begin the promulgation process.
- *July 2002* - Arkansas Centerline File Standard official promulgation notice is mailed to 202 boards, commissions, agencies, higher education, vocational facilities, and county judges.
- *June 2002* - Arkansas State Land Information Board adopts Arkansas Centerline File Standard.
- *May 2002* - Arkansas Centerline File Task Force proposes the Arkansas Centerline File Standard to the Arkansas State Land Information Board.
- *February - July 2002* - Arkansas Centerline File Task Force holds numerous meetings to formulate a centerline standard.
- *January 2002* - Arkansas Centerline File Task Force is formed by the Arkansas State Land Information Board.

## **Upcoming Events and Tasks**

Here is an overview of some of the upcoming items for the ACF team:

- Work with SDR to reformat data for Miller and Lincoln counties to the ACF standard and post to the ftp site.
- Work with Conway County to get their data into the standard and post to ftp.
- Work with Western Arkansas Planning and Development District to get data in the ACF standard for Sebastian County and Scott County.
- Acquire Carroll and Stone county's data and evaluate
- Continue to promote the ACF standard whenever possible.
- Continue to coordinate with major stakeholders and provide easy access to project status.
- Post more status graphics and workflow documentation to the AGIO website.

## Data Formatting Methodologies

Data formatting methodologies are posted to the web at:

[http://www.gis.state.ar.us/AGIO/ACF/ACF\\_status.asp](http://www.gis.state.ar.us/AGIO/ACF/ACF_status.asp)

Also, look for the following workflow documents to be posted soon:

1. Step by step approach to developing and adjusting centerlines using ADOP imagery and ArcGIS
2. Step by step approach to developing and adjusting centerlines using ADOP imagery and MapInfo
3. Step by step approach to developing and adjusting centerlines using ADOP imagery and GeoMedia
4. Direct upload of updated centerlines to GeoStor.
5. Reformatting metadata to fit the FGDC standards.

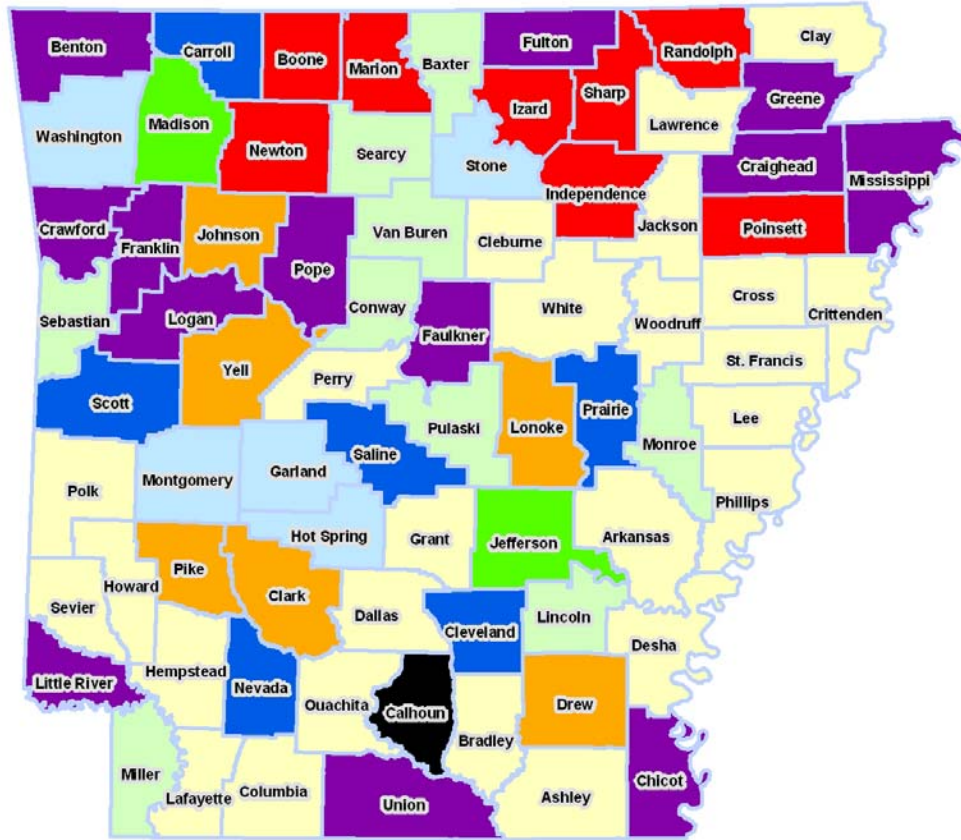
## Status Overview

Below is a broad overview of the results of AGIO research thus far by level of government and private entity information. For more detailed information, please see figures 1 and table 1 on the following pages.

- *County Level* – Madison County has been reformatted to the ACF standard database definitions; private drives and miscellaneous roads have been added. It has been placed on our ftp site and is the first county available to download in the ACF standard format. Jefferson County has also been reformatted and placed on FTP. Private drives will be added at a later time. Preliminary files have been received for Conway, Miller, and Lincoln counties from contractors for the ACF team to review, make comments, and develop methodologies for crosswalking into the ACF standard and developing processes for maintenance. We hope to receive a data from Sebastian, Washington, Jefferson, Baxter, Garland and Hot Spring counties for inclusion into the ACF in the next couple of months. Greene County has been received but has been put on hold due to their 911 coordinator leaving. Searcy County has been completely digitized in accordance with the standard and has been attributed with everything but address ranges by One Call. Ranges will be added in conjunction with the counties 911 implementation. Several major cities within counties have either developed data or are in the process of creating data that will be incorporated into the final dataset. Pope and Faulkner counties have submitted CAD files and we are working with them to reformat to GIS ACF layers. Drew and Clark County are out for bids.
- *State Level* – AHTD is about 75% complete with digitizing Fulton, 50% complete with Izard, 75% complete with Newton, they are also digitizing Garland and Madison.

- *Federal Level* – AGIO is working with the US Census Bureau to acquire resources for working with counties without 911 programs and as well as helping in attributing the counties that AHTD is mapping or counties with out 911 programs.

Figure 1



**Status as of 3/15/02**

- US Census is working with the county
- Need to contact
- Contact has been made - need to follow up with details
- Contractor is working on county of county is in bid process
- AHTD will digitize county from ADOP DOQs
- County, Planning District or Arkansas One Call is working to develop data
- Dataset is complete or near complete and has been requested
- Dataset has been recieved and is being reviewed by AGIO
- Dataset is being reformatted to fit the standard
- Dataset is ready to be loaded into GeoStor
- Dataset is in GeoStor and is being maintained



**Table 1**

<b>County Name</b>	<b>Status Date</b>	<b>Comment</b>
Jefferson County	3/13/2003	The OES has GPSed all the roads in the county and most in the cities with geocodable attributes and is providing the data to AGIO for review. Posted in the ACF format on 1/5/03.
Madison County	3/13/2003	The data has been cross walked into the ACF database standard; roads were spatially adjusted where needed using ADOP imagery as a reference, and miscellaneous roads and private drives were added. It was placed on ftp on 11/18/02. <b>AHTD is redigitizing.</b>
Monroe County	3/13/2003	911 office has mapping that was started by Miller Mapping and then they finished it in-house. It has geocodable attributes. The file was posted to the AGIO website to download as best available. AGIO will work with the county to get data in ACF format
Montgomery County	3/13/2003	M&M has is developing data in this county. M&M is planning to adjust this data to meet the ACF standard in the future.
Pike County	3/13/2003	M&M has is developing data in this county and will deliver it in the ACF standard format to be distributed.
Searcy County	3/13/2003	AHTD has delivered the line-work they digitized on top of DOQs. Converted to a GIS ACF format; driveways and miscellaneous roads have been added by AGIO. AOCS finished adding road names, types and other data. Ranges to be added by 911. Posted 3/11/03.
Carroll County	3/12/2003	WellsCo GPSed these roads a few years ago. Requested the data for review from Candy Bawcom. Updated by using measurements and sketches. Using ArcView to update mapping. AGIO will meet with them on 3/13/03.
Drew County	3/12/2003	Met with Road and Bridge and 9-1-1 representatives on 2/4/03. They will put centerline development out to bid in 3/03.
Faulkner County	3/12/2003	DGN format. Started with Atlas GIS drew roads and labeled - judge wanted a color map - went Microstation and Corel Draw, has graph bars to get into a coordinate system. Updated every month. AHTD is digitizing and plans to finish by fall 2003.
Fulton County	3/12/2003	AHTD is digitizing the county and is 75% complete. County mapped roads with a NavStar meter and it was verified with AHTD mapping using AutoCAD 2000i. They are going to verify it again against the DOQs and switch to ArcView to link their 911 database.
Garland County	3/12/2003	Have received a dataset from M&M to be used for 911 with MapStar. M&M plans on adjusting the data to fit the ADOP imagery in the future. AHTD is also digitizing and plans to be finished by June, 2003. We will coordinate mapping with M&M.
Independence County	3/12/2003	AHTD is planning to digitize this county on top of the SLIB DOQs. Bill Hicks assigns addresses. Would work with Lori at White River PDD in Batesville, the county seat. Bill uses hard copy maps updated once a year. Also talking with SDR.
Izard County	3/12/2003	AHTD is planning to finish digitizing this county by the end of June, 2003.
Lonoke County	3/12/2003	AGIO did a pilot project in this county to use point address extracted from the CAMA data base used to conflate address ranges onto centerlines that are heads-up-digitized on the DOQs. The county hired the 9-1-1 company to develop their data using ADOP.

Newton County	3/12/2003	AHTD is 95% complete digitizing the data. AGIO will x-walk into the ACF format and work with the county and AR One Call to develop attributes.
Prairie County, Arkansas	3/12/2003	Central Arkansas Planning and Development is currently GPSing the roads. Need to visit Conya to review their process soon.
Pulaski County	3/12/2003	This county was posted as best available local data due to a large number of segments having no attribute coding. AGIO will work with Pagis and update this file as it is available.
Sebastian County	3/12/2003	WAPDD is currently working to wrap up this project and will make the data available to AGIO to crosswalk into the standard. 95% Complete according to WAPDD. Ft. Smith has finished their dataset and AGIO has received it. Need to make sure WAPDD has it.
Stone County	3/12/2003	Mapping was GPSed by Miller Mapping and the county has been maintaining it in MapInfo. Should receive the file in the end of March 2003 for review. Tina says the have found some areas that are not very accurate spatially.
Van Buren County	3/12/2003	Met with Mr. Britton in Jan 2003. He was using MapInfo 5 with a manually reference DOQ to adjust Miller Mapping linework. We showed him how to readjust this in MapInfo 7 with the DOQQ in its native coord. System. AGIO will help with the adjustment.
Washington County	3/12/2003	The county is being digitized and attributed by AR One Call. The County DEM office is compiling the best available for the county and cities. AGIO is reviewing preliminary files and is meeting with the county 3/14/03.
Baxter County	3/11/2003	9-1-1 map was developed using a DMI meter and is being adjusted and maintained using ADOP imagery and a mapping grade Trimble GPS. Road and Bridge has a file that is part AHTD part from a local surveyor and part from the 9-1-1 map. Adjustment TBD.
Boone County	3/11/2003	AHTD is planning to digitize this county on top of the SLIB DOQs. The city of Harrison is getting high res orthos and plannimetrics from AMI. They are planning on following the GPS and ACF standards for database development.
Scott County	3/10/2003	This county is being GPSed by WAPDD. 50% Complete according to WAPDD.
Conway County	3/3/2003	County is under contract with NTB. AGIO has reviewed the preliminary dataset and will receive a copy of the final deliverable in the ACF standard by the end of March.
Benton County	2/14/2003	The county is mapping roads with a GPS receiver and is following the SLIB standards for GPS and ACF. Arkansas One Call is attributing a version of the roads with complete road names. Bentonville has centerlines w/out ranges. AGIO is meeting on 3/14/03
Clark County	2/13/2003	Arkadelphia has a dataset that was created with GPS that has road names. County brought AHTD into AutoCAD and kept up to date. Mapping in paper space. Getting ready to go out to bid for GPS mapping in late February.
White County	2/12/2003	This county has been contacted and made aware of the standard. Need to follow up with details. Urban Planning Associates out LR is doing some initial mapping for Searcy only.
Franklin County	2/10/2003	Western Arkansas Planning and Development began field work for GPS mapping in 2/2003.

Lincoln County	2/10/2003	County is under contract with SDR and is 97% complete. SDR is developing a translator into the ACF standard that can be run each time a new updated file is released.
Miller County	2/10/2003	County is under contract with SDR and is 99% complete. SDR is developing a translator into the ACF standard that can be run each time a new updated file is released.
Sharp County	1/22/2003	AHTD is planning to digitize this county on top of the SLIB DOQs. Road department wants to use White River PDD to GPS roads for asset management - how many miles of road.
Arkansas County	1/16/2003	Have a map book with AHTD maps and road names and address ranges. Address ranges are in a spreadsheet, but map is hard copy only.
Ashley County	1/16/2003	This county has been contacted and made aware of the standard. Need to follow up with details. I think they were under contract with Miller Mapping. Judge attended the meeting on 1/15/03.
Clay County	1/16/2003	GPS roads in MapInfo according to Jane Bevans @ GeoComm. County was under contract with Miller Mapping. Need to visit soon also in CAMP.
Crawford County	1/16/2003	Western Arkansas Planning and Development is currently doing field work and should complete this county in 2003.
Howard County	1/16/2003	Mailed a copy of the standard on 10/8/02. This county was under contract with Miller Mapping. Judge attended the meeting on 1/16/03
Jackson County	1/16/2003	This county has been contacted and made aware of the standard. County uses Norman Mapping in Searcy for hard copy maps. Newport does the 911 for the county.
Phillips County	1/16/2003	This county has been contacted and made aware of the standard. The Road dept. attended the meeting on 1/16/03. They said they have a map book.
Poinsett County	1/16/2003	AHTD is planning to digitize this county on top of the SLIB DOQs. Road and bridge foreman attended meeting on 1/16/03 and said he is willing to maintain the new AHTD/AOCS map.
Sevier County	1/16/2003	This county has been contacted and made aware of the standard. County Judge attended the meeting on 1/16/03
St. Francis County	1/16/2003	This county has been contacted and made aware of the standard. Have address ranges in a spreadsheet.
Columbia County	1/15/2003	Mapping not to scale. Address ranges from SBC.
Greene County	1/15/2003	Database is AHTD roads that have been added to as new roads went in. Also have new 911 county roads names added. New OEM coordinator wants to start with a clean slate.
Hempstead County	1/15/2003	The county has been contacted and made aware of the standard. Hope has GPSed the city's centerlines and provided them to AGIO for review.
Lafayette County	1/15/2003	This county has been contacted and made aware of the standard. Judge attended the meeting 1/15/03.
Little River County	1/15/2003	Arkansas One Call is attributing a version of the roads with complete road names and address ranges. 911 Coordinator attended meeting on 1/15/03.
Bradley County	12/26/2002	This county has been contacted and made aware of the standard. Need to follow up with details.
Calhoun County	12/26/2002	This county does not have a 911 program. The US Census will take responsibility for generating this data.

Chicot County	12/26/2002	Arkansas One Call is attributing a version of the roads with complete road names and address ranges.
Cleburne County	12/26/2002	The roads are available in AutoCAD with names. Need to contact, request data so that it can be reviewed.
Cleveland County	12/26/2002	This county has been contacted and made aware of the standard. Need to follow up with details. Judge adamant about county following standard.
Craighead County	12/26/2002	Centerlines from Aerial Photos taken in 2000 w/ st name only. Address points also. Data for Jonesboro only. One Call and CAST are researching conflation process. County uses ArcView.
Crittenden County	12/26/2002	This county has been contacted and made aware of the standard. Need to follow up with details.
Cross County	12/26/2002	This county has been contacted and made aware of the standard. Need to follow up with details.
Dallas County	12/26/2002	This county has been contacted and made aware of the standard. Need to follow up with details.
Desha County	12/26/2002	This county has been contacted and made aware of the standard. Need to follow up with details.
Grant County	12/26/2002	This county has been contacted and made aware of the standard. Need to follow up with details.
Hot Spring County	12/26/2002	Have received a dataset from M&M to be used for 911 with MapStar. M&M plans to adjust the linework to fit the ADOP imagery in the future.
Lawrence County	12/26/2002	This county has been contacted and made aware of the standard. Need to follow up with details.
Lee County	12/26/2002	This county has been contacted and made aware of the standard. Need to follow up with details.
Logan County	12/26/2002	This county has been contacted and made aware of the standard. Need to follow up with details.
Marion County	12/26/2002	AHTD is planning to digitize this county on top of the SLIB DOQs.
Mississippi County	12/26/2002	Centerlines have been developed by the EAPDD. Met with the Districts mapper and reformatted data into the standard where it existed. They will continue to refine the spatial data and attribute it in accordance with the standard.
Nevada County	12/26/2002	Dale will come by office on 10/9/02 to show data on laptop. His is GPSing using ArcView and Spatial Data Research methodology.
Ouachita County	12/26/2002	This county has been contacted and made aware of the standard. Need to follow up with details.
Perry County	12/26/2002	This county has been contacted and made aware of the standard. Need to follow up with details. County uses ArcView.
Polk County	12/26/2002	This county has been contacted and made aware of the standard. Judge attended meeting 1/15/03. No digital mapping available.
Pope County	12/26/2002	Received their roads that were in a CAD environment with text labels for road names and address ranges. AGIO rubbersheeted it to the ADOP imagery and provided it back to the county to convert to a GIS database that is geocodable.
Randolph County	12/26/2002	AHTD is planning to digitize this county on top of the SLIB DOQs.
Saline County	12/26/2002	The county judge's office is developing a cadastral database with addresses. The county purchased data from NavTec that is not shareable due to a license agreement. According to the contractor the data meets the specs of the standard

Union County	12/26/2002	This county has been contacted and made aware of the standard. 911 Coordinator attended meeting 1/15/03.
Woodruff County	12/26/2002	This county has been contacted and made aware of the standard. Need to follow up with details.
Yell County	12/26/2002	This county has been contacted and made aware of the standard. Need to follow up with details. Under contract with GeoComm for delivery in 2004.
Johnson County	10/1/2002	Under contract with GeoComm. Data is expected to be finished at the end of 2003. Mailed a copy of the standard on 10/3/2002.